

Appendix B

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1. Biaxially oriented polymer film having at least one layer, wherein said layer is a fibre-containing layer which is built up from a thermoplastic polymer and contains natural fibres, polymer fibres or mineral fibres.
13. The polymer film according to claim 1, wherein the fibre-containing layer contains 0.5 to 30% by weight, based on the weight of the layer, of fibres.
14. The polymer film according to claim 1, wherein the fibres are selected from the group consisting of cellulose fibres, cotton fibres, polypropylene fibres, polyethylene fibres, polyester fibres, polyamide fibres, polyimide fibres, wollastonite fibres and fibres made from calcium silicate.
15. The polymer film according to claim 1, wherein the fibres have a length in the range from 10 to 200 μm , a diameter in the range from 1.5 to 50 μm , and a length/diameter L/D ratio of from 5 to 30.
16. The polymer film according to claim 1, wherein the fibres have a melting point which is at least 5°C above the extrusion temperature of the matrix polymer or of the polymer/fibre mixture.
17. The polymer film according to claim 1, wherein the polymer of the fibre-containing layer is selected from the group consisting of a polyimide, a polyamide, a polyester, a polyvinyl chloride, and a polyolefin.
18. The polymer film according to claim 1, wherein the polymer is a polypropylene.

19. The polymer film according to claim 18, wherein said polymer is an isotactic propylene homopolymer.

20. The polymer film according to claim 1, wherein the film is multilayered, and the fibre-containing layer is the base layer of the film.

21. The polymer film according to claim 1, wherein the film is multilayered, and the fibre-containing layer is the interlayer of the film.

22. The polymer film according to claim 1, wherein the base layer comprises a component selected from the group consisting of pigments, vacuole-initiating fillers, and combinations thereof.

23. The polymer film according to claim 1, wherein the interlayer comprises a component selected from the group consisting of pigments, vacuole-initiating fillers, and combinations thereof.

24. The polymer film according to claim 22, wherein the fibre-containing layer additionally comprises a component selected from the group consisting of pigments, vacuole-initiating fillers, and combinations thereof.

25. The polymer film according to claim 23, wherein the fibre-containing layer additionally comprises a component selected from the group consisting of pigments, vacuole-initiating fillers, and combinations thereof.

26. The polymer film according to claim 1, wherein said film is metallized.

27. A process for the production of a polymer film according to claim 1, comprising extruding a mixture of thermoplastic polymer and fibres onto a chill roll, warming the resultant pre-film, and stretching said pre-film in the longitudinal direction and the transverse direction.

28. A process comprising packaging a product with a film of claim 1.

29. A process comprising labeling a product with a film of claim 1.

30. A process comprising laminating a product with a film of claim 1.